

ABSTRACT OF THE DISCLOSURE

A reference developing image is formed on a photoreceptor drum under an image forming condition measured in advance, and
5 the density of this reference developing image is detected. A development bias voltage is corrected based on the detection result, and when a correction value of the development bias voltage exceeds a predetermined range, a reference output voltage of an ATC sensor for detecting the density of toner in a developing device
10 is corrected based on the detected value of humidity around the developing device, the frequency of use of the apparatus, and the agitation stress of developer.